

# Prepared testimony of Paul B. Kurtz Executive Director The Cyber Security Industry Alliance

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Chairman Davis, Ranking Member Waxman and members of the committee, thank you for the opportunity to testify here today.

The Cyber Security Industry Alliance is the only advocacy group dedicated to ensuring the privacy, reliability and integrity of information systems through public policy, technology, education and awareness. The organization is led by CEOs from the world's top security providers who offer the technical expertise, depth and focus to encourage a better understanding of security issues. It is our belief that a comprehensive approach to ensuring the security and resilience of information systems is fundamental to global protection and economic stability.

Before joining CSIA, I served at the White House on the National Security Council and Homeland Security Council. On the NSC, I served as Director of Counterterrorism and Senior Director of the Office of Cyberspace Security. On the HSC, I was Special Assistant to the President and Senior Director for Critical Infrastructure Protection.

As I begin my remarks, I want to commend Representative Frank Wolf for his leadership in the area of telework. Congressman Wolf has been a leader in federal telework because of his passion to improve productivity and quality of life, to achieve cost savings and reduce traffic congestion and various other laudable goals. He also recognizes that telework can enable continuity of operations regardless of disruptions like the attacks of September 11, the anthrax scare, Hurricanes Katrina and Rita, and whatever the future may hold.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Letter from Representative Frank Wolf to the President, September 15, 2005.

I also want to commend the White House for assembling the Implementation Plan for the National Strategy to battle and contain a pandemic influenza. My comments today will focus on one of the plan's key goals: sustaining the infrastructure and mitigating the impact of a pandemic on the economy and functioning of society.

In the early twentieth century, more than 20 million people around the world perished in the outbreak of Spanish Influenza. During this epidemic, technology played a key role in continuity of operations. An ad placed by Bell Canada in the fall of 1918 urged quarantined citizens to use the phone - which was relatively new at the time for the general public – for emergencies only: "You will thus be helping to keep the service intact to meet the urgent needs of the community in the present emergency."

In the face of a flu pandemic today, information technology would not be for emergency use only; because IT has become so much more integral to our daily lives. IT sustains and fuels our economy, and in a crisis situation would not only help keep the public informed, but also enable us to continue working, remaining productive.

We've already seen, in just the past several years, the wide range of bad things that can and will happen to the United States: terrorists will strike, hurricanes and earthquakes will flatten cities, major accidents will happen, and health epidemics will spread. Resilience in the face of these challenges – an "all hazards" approach – encompasses protection, preparedness, and recovery. In our society, information technology holds the key to all three.

There are four areas I will cover today:

- First, the value of investing in the capability to *distribute the federal workforce*, by which I mean enabling Federal agency employees to function under normal <u>and</u> adverse conditions – not only at home, under the traditional definition of telework, but from anywhere.

The private sector has made great strides in this arena, for a number of reasons I'll go over in a minute, but the federal government is unfortunately well behind.

<sup>&</sup>lt;sup>2</sup> "Lessons of 1918-19 Spanish flu epidemic guiding preparedness" Bill Eekhof, October 5, 2005, http://www.mykawartha.com/ka/news/peterborough/

- Two, to use the process of planning for a possible flu pandemic as an opportunity to break down some of the institutional barriers that have prevented the federal government from keeping pace with the private sector in distributing its workforce. We have an opportunity here for a shift in the federal government, from a brick and mortar mentality to a more agile, efficient workforce. Doing so would pay significant, recurring long-term dividends to the government and taxpayers well beyond just crisis management.
- Three, to address the burden that a flu pandemic would have on the overall information infrastructure, including some of the challenges of the "last mile."
- And fourth, to offer recommendations for actions that the Federal government can take, in the near and long term, to make distributed workforce capability a reality.

## Avian Flu - A Biological Winter

Leaving aside recent sensational network TV specials, before addressing each of these objectives, I would like to emphasize the gravity of this situation by briefly describing some of the very real potential results of a flu pandemic or similar crisis.

According to the report recently released by the White House, a flu pandemic could take as long as 18 months to run its course. During this time:

- Many workers will be unable to report to their offices because those offices will either be closed, or they must stay at home to care for children (because schools are also closed), or the elderly. The White House's plan recommends that government and the private sector start with the assumption that up to 40 percent of staff may be absent for two weeks at the height of a pandemic wave, with lower levels for a few weeks on either side of a wave.
- Travel restrictions will likely include multiple forms of mass transit, ranging from subways to air travel. The safest course for many people will be to simply not leave their homes, where eventually they may

have to depend on the government to provide "last mile" delivery of food and other supplies.

- Many industries—particularly those in the service sector,—will significantly reduce operations. Supply chains will be disrupted, production placed on hold. However, some industries <u>must</u> continue to function in order to avert social breakdown: basic utilities, of course, as well as banks, hospitals, grocery stores and so forth. Even as it comes under heavy strain at the onset of the pandemic, operation of the nation's telecommunications network will be essential for first-responders to do their jobs, and for law enforcement agencies to preserve order.
- The general public will need timely, reliable information about ongoing developments, because a sudden sense of both catastrophe and isolation can quickly lead to mass panic. That, in turn would quite possibly spawn a vicious cycle of looting and destruction that increases suffering and makes ultimate recovery all the more difficult.
- Most importantly, the medical community simply must have access to secure, reliable communications systems if they are to be able to save as many lives as possible. Front-line health care providers will need to coordinate treatment services, vaccine distribution, and quarantines. Academic researchers will need to exchange test results and discuss new treatment modalities. The Centers for Disease Control will need to be able to track virus vectors and mutating strains and coordinate with their counterparts overseas. Much of this type of traffic rides on the today's public Internet.

### The Value of a Distributed Workforce

Against this admittedly apocalyptic backdrop, the unforgiving reality of today's federal workforce is that most contingency plans for emergency operations are designed for a maximum downtime of two or three days. As the White House has said, pandemics play out over weeks and months. Ensuring the continuity of key government operations under that kind of an extended period is a central responsibility of the nation's leadership.

The private sector has already begun to move aggressively in this direction. In the financial community, for example, many firms moved quickly after the attacks of Sept. 11<sup>th</sup> to disperse critical facilities outside lower of Manhattan. Now they've gone one step further, so that their workers can work anytime, anywhere.

A distributed workforce helps in all hazards – a terrorist attack, a natural disaster, or an accident. As the White House Implementation plan states, during a flu pandemic, "systems that facilitate communication in the absence of person-to-person contact can be used to minimize workplace risk for essential employees and can potentially be used to minimize workplace entry of people with influenza symptoms." During a crisis, ordinary Americans' primary and immediate concern will surely be for the safety and health of their loved ones. As the initial shock wears off, however, the ability to continue meeting their primary professional responsibilities will offer many people solace, comfort and hope.

Fortunately, as Scott Kriens explained in detail, the technology exists to make this all possible. Much of the private sector has already adopted multimedia, secure, remote mobile technologies – there are various options – that allow employees to work wherever they need to, be it at home, at an Internet café, or on the road. In many cases companies have had no choice; the world is an increasingly difficult and dangerous place to do business, and they've had to adopt new technologies to ensure that they can weather any storm that comes along. But there are also widely recognized ancillary benefits to workforce distribution: productivity increases, reduced traffic congestion and gas consumption, a cleaner environment, greater personal flexibility, and a higher quality of life. These benefits are well documented by such organizations as the Telework Consortium.

A serious effort to develop a distributed work force capability in the Federal government will have a lasting impact well beyond a possible flu pandemic. Happy employees are more efficient ones, something the Office of Personnel Management has noticed as it contemplates retention and recruitment challenges after the retirement of the baby boom generation. Workforce distribution holds the potential to simply make life better in countless ways. As frightening as a flu pandemic might be, it also provides us with the opportunity, and the impetus, to break down structural barriers to reform.

### **Barriers to a Distributed Workforce**

So what are those barriers? After all, the White House Plan raises the issue of telework and acknowledges its importance, and calls for updating guidance and establishing performance metrics. In fact, much of the necessary guidance exists already.

GSA issued a publication in March entitled "Guidelines for Alternative Workplace Arrangements." It covers telecommuting, hoteling, virtual offices, telework centers, and so forth,<sup>3</sup> and affirms that for approved teleworkers, agencies can:

- Pay for broadband installation and monthly access fees;
- Provide new or excess equipment, including computers; and
- Provide helpdesk and technical support.

There's also Emergency Preparedness Circular 65, from FEMA, which focuses on emergency scenarios. But despite this guidance, the various federal telework programs remain fragmentary and uncoordinated. Just over 100,000 employees, or less ten percent, of the civilian federal workforce, teleworked according to a GAO analysis in July 2004. By contrast, more than 20 million, or almost 20 percent of the adult American workforce works remotely one or more days per month.<sup>4</sup>

The reason for this discrepancy – the real obstacles to a distributed federal workforce -- are issues of implementation and budget. Both are systemic in nature.

Agencies have little incentive to increase efficiency and save money because of the "use it or lose it" nature of the budgeting process. Representative Wolf's program<sup>5</sup> did penalize certain agencies for not addressing telework. However, absent the flu pandemic threat, federal managers have few incentives to pursue a distributed work force. Doing so would not only hit them in the budget, it would require changes in the ways that managers interact and evaluate employees. Many supervisors insist on having "eyes on" employees, and as we all know, change is hard.

<sup>&</sup>lt;sup>3</sup> [NEED A DEFINTION]

<sup>&</sup>lt;sup>4</sup> 2004 American Interactive Consumer Survey conducted by the Dieringer Research Group and data from the International Telework Association and Council (ITAC)

That's why, as frightening as a pandemic influenza might be, it also provides a real opportunity to fundamentally change the way the federal government does business – the kind of opportunity that doesn't come along very often. As a kind of action-forcing event, it makes the kind of structural reforms possible that might otherwise be strangled by the bureaucracy.

But only Congress, in partnership with the White House, can set this kind of process in motion, with a combination of statutory requirements, incentives, deadlines and evaluation criteria.

One thing worth reinforcing before I move on is that, of all the barriers to a distributed workforce, security is not among them. Again, as Scott explained, private industry has led the way here, using encryption, authentication and access control technologies that keep sensitive information secure.

### **Burden on the Information Infrastructure**

That said, there is another factor that must be taken into consideration. Little empirical evaluation has been done of the ability of the Internet infrastructure to support the traffic of large numbers of federal employees suddenly attempting to log on. There will surely be a spike in telecommunications traffic overall at the first onset of the crisis.

The continued operation of the information infrastructure deserves critical attention as it underlies so many aspects of the White House's Plan. The Plan states that the Federal Government has primary responsibility in a number of areas, including containment efforts overseas, guidance related to protective measures, modifications to law, regulation and monetary policy in order to mitigate the impact of a pandemic. However, the Plan does not identify the backbone of the information infrastructure as an area of primary responsibility for the Federal Government. This is proper given the private sector owns and operates the vast majority of the critical information infrastructure. However, the government must play a leading role in coordinating its continued operation during a flu pandemic.

We simply don't know about what the impact would be if, for example, even *half* of the 60,000-plus employees of the Department of Health and Human Services – who help coordinate the entire national health care system – were to attempt to work offsite. We do know that any limitations on their ability to do their jobs would have a cascading effect throughout the medical system,



and at the worst possible time, when large numbers of Americans are in need of emergency care.

Thus we must act to ensure that the basic information infrastructure itself is robust enough to handle the surge of, potentially millions of teleworkers. If we don't, we run the risk of creating a virtual beltway that is stuck in traffic jams for twelve hours a day.

### Recommendations

There are a number of other strategic options that could help move the federal government toward workforce distribution capability, and strengthen America's Internet infrastructure so it is there when we need it.

President Bush has made clear that he is in charge of overall crisis response. Given the burdens and afflictions currently facing DHS, the role of other federal agencies should be closely examined, particularly by the Office of Management and Budget. OMB, in coordination with the Homeland Security Council, should convene a task force to aggressively expand telework. As I mentioned earlier, telework within the Federal government is less than ten percent, compared with more than twenty percent in the private sector. This makes no sense; in fact, it's exactly backwards considering the critical nature of many federal programs to many Americans' day-to-day lives. The Federal government should at the very least seek to match the private sector's capabilities, even if it takes a crash program to do it.

- The President's National Security and Telecommunications Advisory
  Committee and National Infrastructure Advisory Council should
  undertake an immediate review of the burden that a flu pandemic
  would have on the information infrastructure. Recommendations and
  plans for "surge" capability in the opening phase of a pandemic should
  be assembled and ready to activate.
- We should all learn from what works. In preparation for the 2004
  Republican and Democratic National Conventions, the Office of
  Personnel Management conducted emergency preparedness surveys in
  Boston and New York, and used them to develop program training, in
  partnership with other agencies, to reduce the number of employees
  who had to report to work in the secured areas. The project was an

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unqualified success. With this context, the Federal Government should test existing distributed work force plans now, by designating both essential and non-essential employees to work from home for a day or two. Through such exercises managers will be able to make much better informed policy and procurement decisions. Inviting participation from the private sector would also help analyze the potential impact on contract support.

Congress should seek to remove any real or perceived barriers for
Federal agencies to pursue telework. In particular, agency budgets for
FY '07 should allow the flexibility for agencies to retain savings from
teleworking and deploy them elsewhere, so they are not punished for
their success.

A year ago, at a hearing just like this one, Mr. Chairman, you stated that "The decentralization of federal agency functions inherent in a healthy telework strategy can greatly increase the survivability of those agencies in the event of a terrorist attack or other disruptive crisis. Federal governmental agencies need to be prepared with a plan to continue doing the most important tasks to serve the American people under any circumstances."

I wish I could sit here and testify that this demand had been met. It is true that many agencies have made strides within their own internal operations and continuity of operations planning. But they have a long way to go before they are ready to work together in a crisis like an outbreak of avian flu.

Preparing for a pandemic influenza that could last up to 18 months means the federal government must ensure employees can provide essential services for an extended period of time in a distributed and resilient manner. And doing so requires an information technology infrastructure robust enough to handle the job. We don't have the workforce distribution capability or the physical infrastructure that we need today, Mr. Chairman, and ultimately only Congress can ask the hard questions, and use both the carrots and the sticks necessary, to make it happen.

With that, I'd be happy to answer any of your questions.

